

# INTERNATIONAL SEARCH REPORT

Internal Application No

PCT/IB2004/052135

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 H01L51/30 H01L51/20 H01L51/10

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/083958 A (NOVALED GMBH; BLOCHWITZ, JAN) 9 October 2003 (2003-10-09) page 9, line 1 - line 27; figures 2,3 page 8, line 19 - line 31 the whole document	1-5, 7
X	WO 03/012890 A (TECHNISCHE UNIVERSITAET DRESDEN; LEO, KARL; BLOCHWITZ-NIMOTH, JAN; PFE) 13 February 2003 (2003-02-13) page 12; claim 5 the whole document	1-5, 7
X	WO 02/41414 A (TECHNISCHE UNIVERSITAET DRESDEN; PFEIFFER, MARTIN; LEO, KARL; BLOCHWITZ) 23 May 2002 (2002-05-23) page 8, lines 5-19 the whole document	1-5, 7

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

22 June 2005

04/07/2005

Name and mailing address of the ISA  
 European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax (+31-70) 340-3016

Authorized officer

Bader, K

**INTERNATIONAL SEARCH REPORT**International Application No  
PCT/IB2004/052135**C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HUANG JINGSONG ET AL: "Low-voltage organic electroluminescent devices using pin structures" APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 80, no. 1, 7 January 2002 (2002-01-07), pages 139-141, XP012030202 ISSN: 0003-6951 abstract -----	1-5, 7

**INTERNATIONAL SEARCH REPORT**

International Application No  
PCT/IB2004/052135

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 03083958	A 09-10-2003	DE 10215210 A1 AU 2003229496 A1 WO 03083958 A2 EP 1488468 A2		23-10-2003 13-10-2003 09-10-2003 22-12-2004
WO 03012890	A 13-02-2003	DE 10135513 A1 CN 1535485 A WO 03012890 A2 EP 1410450 A2 JP 2004537149 T US 2004251816 A1		06-02-2003 06-10-2004 13-02-2003 21-04-2004 09-12-2004 16-12-2004
WO 0241414	A 23-05-2002	DE 10058578 A1 AU 1693502 A BR 0115497 A CN 1475035 A WO 0241414 A1 EP 1336208 A1 JP 2004514257 T US 2004062949 A1		06-06-2002 27-05-2002 21-10-2003 11-02-2004 23-05-2002 20-08-2003 13-05-2004 01-04-2004